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DEPARTMENT	COMPUTER SCIENCE
SUBJECT	Web Programming
SUBMITTED TO	Sir Muhammad Haroon
LAB TASK	CALCULATOR

CALCULATOR

The code is upload on my github profile

HTML CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Calculator</title>
  <link rel="styleheet" href="style.css">
</head>
<body>
  <div class="calculator">
    <div class="display">
      <input type="text" id="result" readonly>
    </div>
    <div class="buttons">
      <!-- Row 1 -->
      <button onclick="clearResult()">C</button>
      <button onclick="appendCharacter('/')">/</button>
      <button onclick="appendCharacter('*')">*</button>
      <button onclick="deleteLast()">DEL</button>

      <!-- Row 2 -->
      <button onclick="appendCharacter('7')">7</button>
      <button onclick="appendCharacter('8')">8</button>
      <button onclick="appendCharacter('9')">9</button>
      <button onclick="appendCharacter('-')">-</button>

      <!-- Row 3 -->
      <button onclick="appendCharacter('4')">4</button>
      <button onclick="appendCharacter('5')">5</button>
      <button onclick="appendCharacter('6')">6</button>
      <button onclick="appendCharacter('+')">+</button>
```

```

    <!-- Row 4 -->
    <button onclick="appendCharacter('1')">1</button>
    <button onclick="appendCharacter('2')">2</button>
    <button onclick="appendCharacter('3')">3</button>
    <button onclick="calculate()">=</button>

    <!-- Row 5 -->
    <button onclick="appendCharacter('0')">0</button>
    <button onclick="appendCharacter('.')">.</button>
  </div>
</div>
<script src="script.js"></script>
</body>
</html>

```

Css code

```

* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

.calculator {
  width: 250px;
  margin: 50px auto;
  background-color: #f3f3f3;
  padding: 20px;
  border-radius: 10px;
  box-shadow: 0 5px 15px rgba(0, 0, 0, 0.2);
}

.display input {
  width: 100%;
  height: 60px;
  font-size: 22px;
  text-align: right;
  padding: 10px;
  margin-bottom: 20px;
  border: none;
  background-color: #eaeaea;
  border-radius: 5px;
  color: #333;
}

.buttons {

```

```

display: grid;
grid-template-columns: repeat(4, 1fr);
gap: 10px;
}

.buttons button {
  height: 50px;
  font-size: 20px;
  border: none;
  background-color: #4caf50;
  color: white;
  border-radius: 5px;
  cursor: pointer;
  transition: background-color 0.3s ease;
}

.buttons button:hover {
  background-color: #45a049;
}

.buttons button:nth-child(1),
.buttons button:nth-child(4) {
  background-color: #f44336;
}

.buttons button:nth-child(1):hover,
.buttons button:nth-child(4):hover {
  background-color: #d32f2f;
}

```

JavaScript code

```

let resultInput = document.getElementById("result");

function appendCharacter(character) {
  resultInput.value += character;
}

function clearResult() {
  resultInput.value = "";
}

function deleteLast() {
  resultInput.value = resultInput.value.slice(0, -1);
}

```

```
}  
  
function calculate() {  
  try {  
  
    resultInput.value = eval(resultInput.value);  
  } catch (error) {  
  
    alert("Invalid input!");  
    clearResult();  
  }  
}
```

Output

